

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11681 - L2 Version 2  
Chandra X-Ray Center

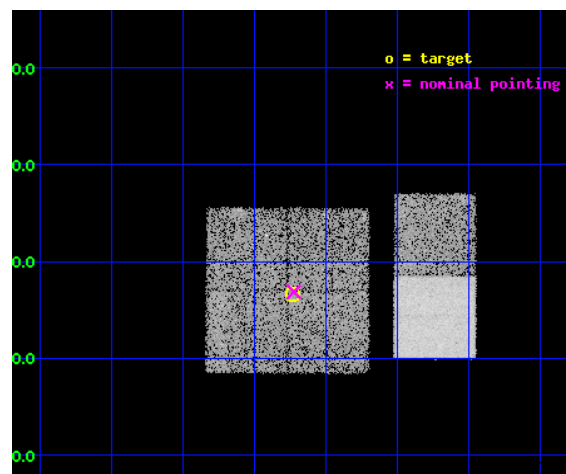
L2 Processing Date : Jun 13 2012

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# 1 Front

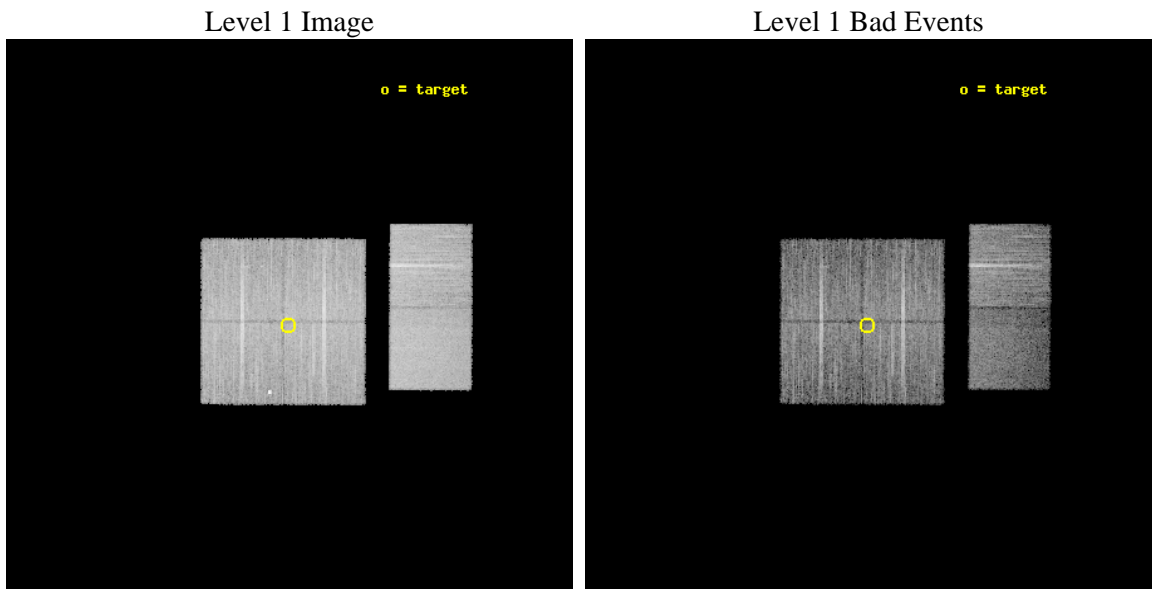
seq_num	702267	Sequence number
obs_id	11681	Observation id
title	Determining the Nature of the Faintest Hard X-ray Selected AGN with Chandra	Proposal title
observer	Mr. Shanil Virani	Principal investigator
object	IGR J01517-0533	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	27.933333	Observer's specified target RA [deg]
dec_targ	-5.556667	Observer's specified target Dec [deg]
ra_nom	27.930889328085	Nominal RA [deg]
dec_nom	-5.5522667171591	Nominal Dec [deg]
roll_nom	90.208444792441	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10153.599962234	Sum of GTIs [s]
livetime	10025.028965749	Livetime [s]
ontime0	10153.599962234	Sum of GTIs [s]
ontime1	10153.599962234	Sum of GTIs [s]
ontime2	10150.358941972	Sum of GTIs [s]
ontime3	10153.599962234	Sum of GTIs [s]
ontime6	10153.599962234	Sum of GTIs [s]
ontime7	10153.599962234	Sum of GTIs [s]
l2events	82512	Number of level 2 events



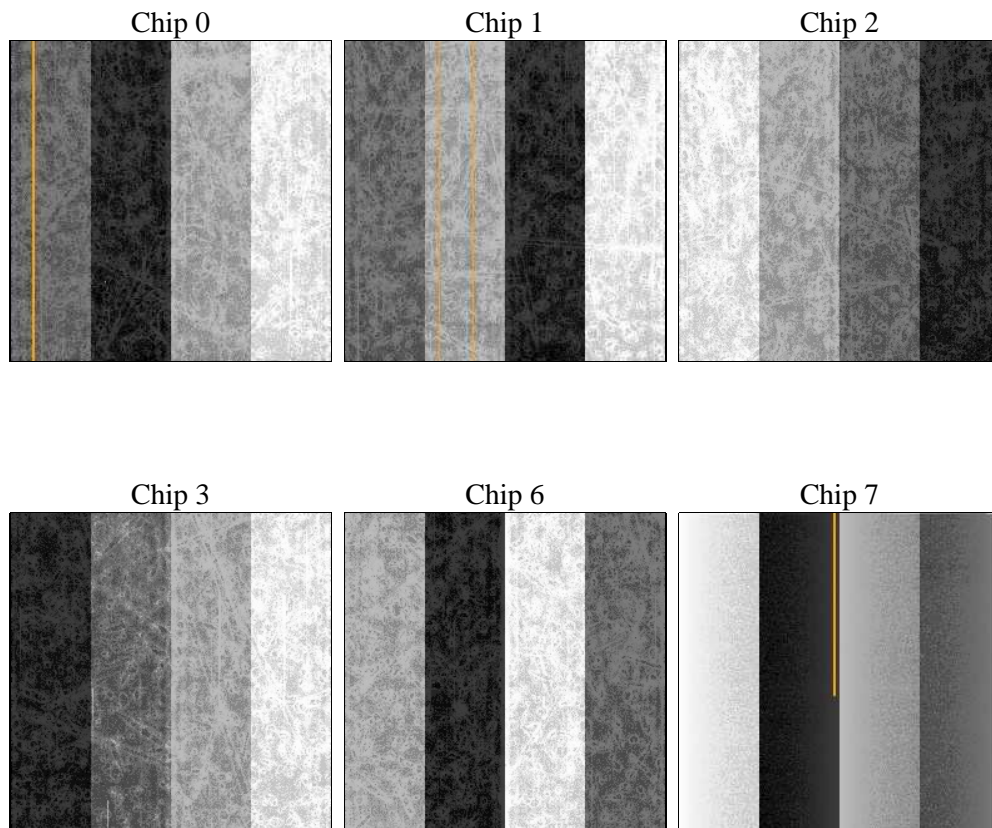
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10153.599962234	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	10153.599962234	Sum of GTIs [s]
date	2012-06-13T02:51:00	Date and time of file creation	ontime1	10153.599962234	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10150.358941972	Sum of GTIs [s]
			ontime3	10153.599962234	Sum of GTIs [s]
			ontime6	10153.599962234	Sum of GTIs [s]
			ontime7	10153.599962234	Sum of GTIs [s]
			l1events	591338	Number of level 1 events

### 2.1.4 Events

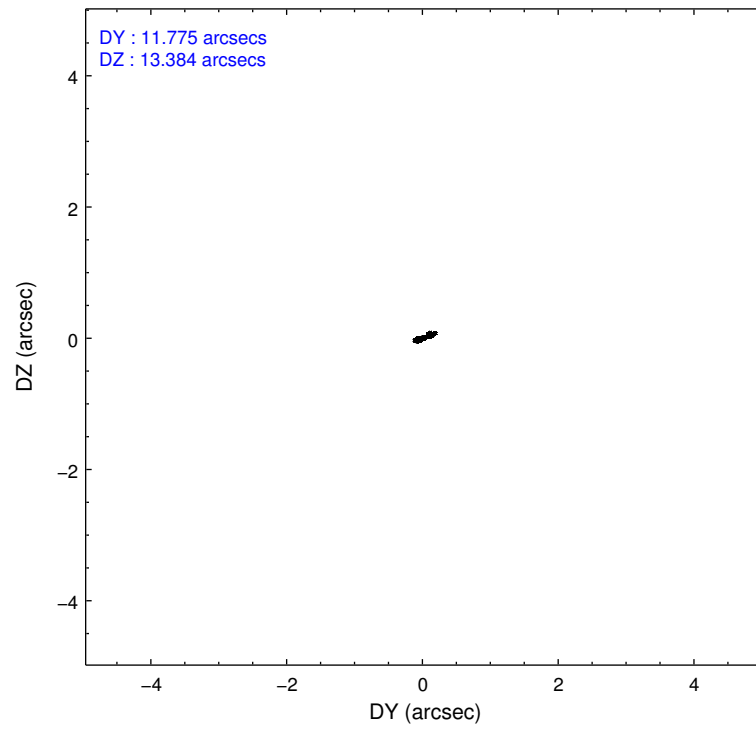
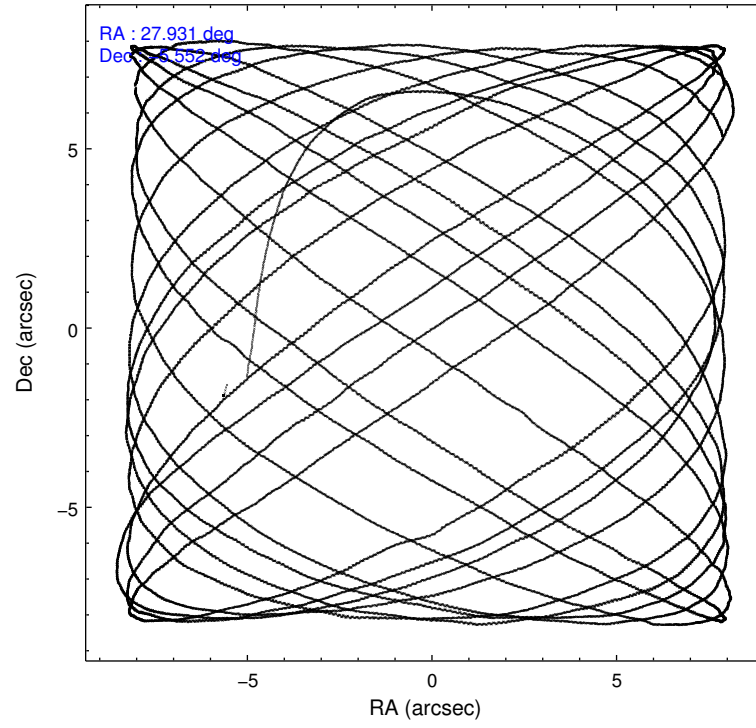
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	90024	90657	100727	95697	104849	109384	grade 0 events	3728	3897	3467	3290	3731	4527
rejected events	80678	79498	91909	87209	95333	63974		4%	4%	3%	3%	3%	4%
rejected %	89%	87%	91%	91%	90%	58%	grade 1 events	55	48	48	49	49	136
								0%	0%	0%	0%	0%	0%
							grade 2 events	2484	3853	2277	2040	2360	10193
								2%	4%	2%	2%	2%	9%
							grade 3 events	1102	1100	1056	1003	1070	4548
								1%	1%	1%	1%	1%	4%
							grade 4 events	1066	1122	1025	1019	1048	4441
								1%	1%	1%	1%	0%	4%
							grade 5 events	3433	3700	3190	3938	3951	11372
								3%	4%	3%	4%	3%	10%
							grade 6 events	1888	2241	1817	1978	2262	26234
								2%	2%	1%	2%	2%	23%
							grade 7 events	76268	74696	87847	82380	90378	47933
								84%	82%	87%	86%	86%	43%

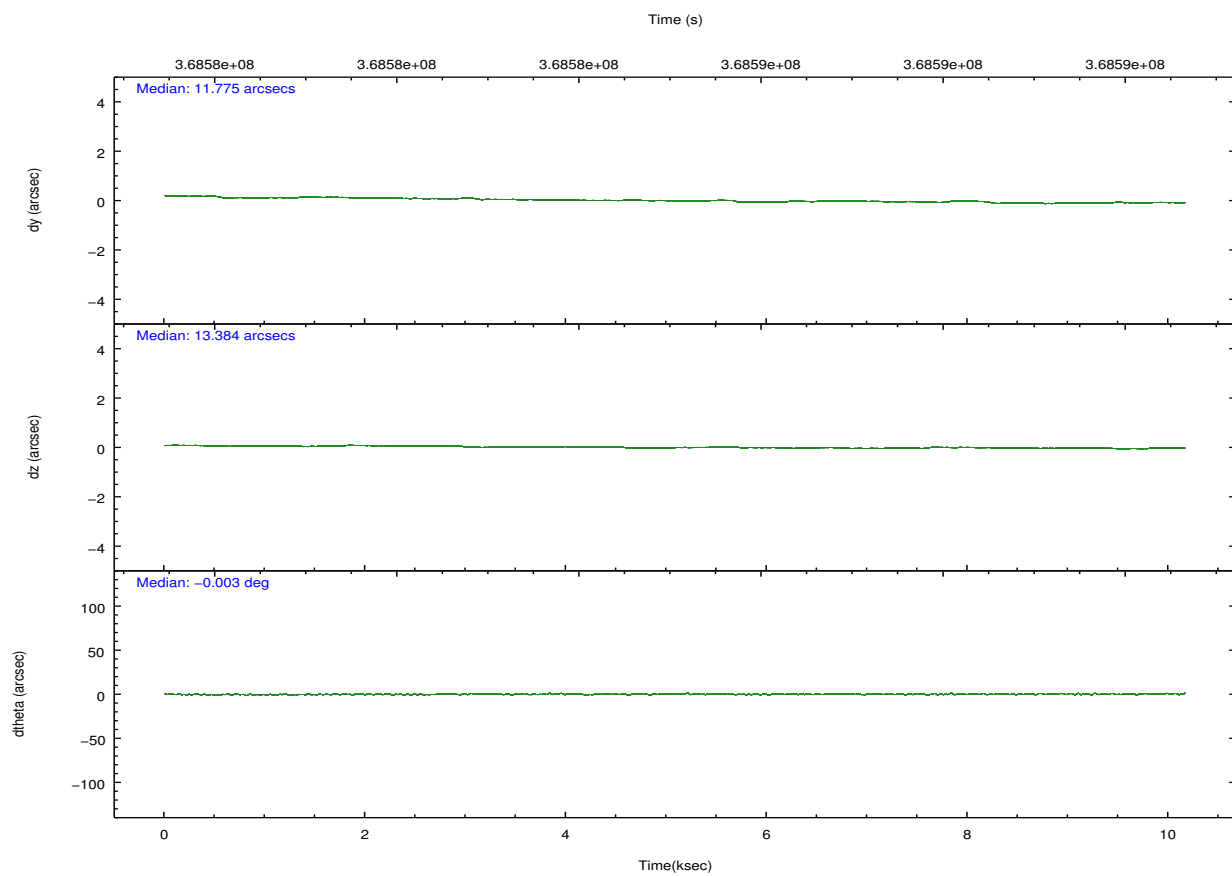
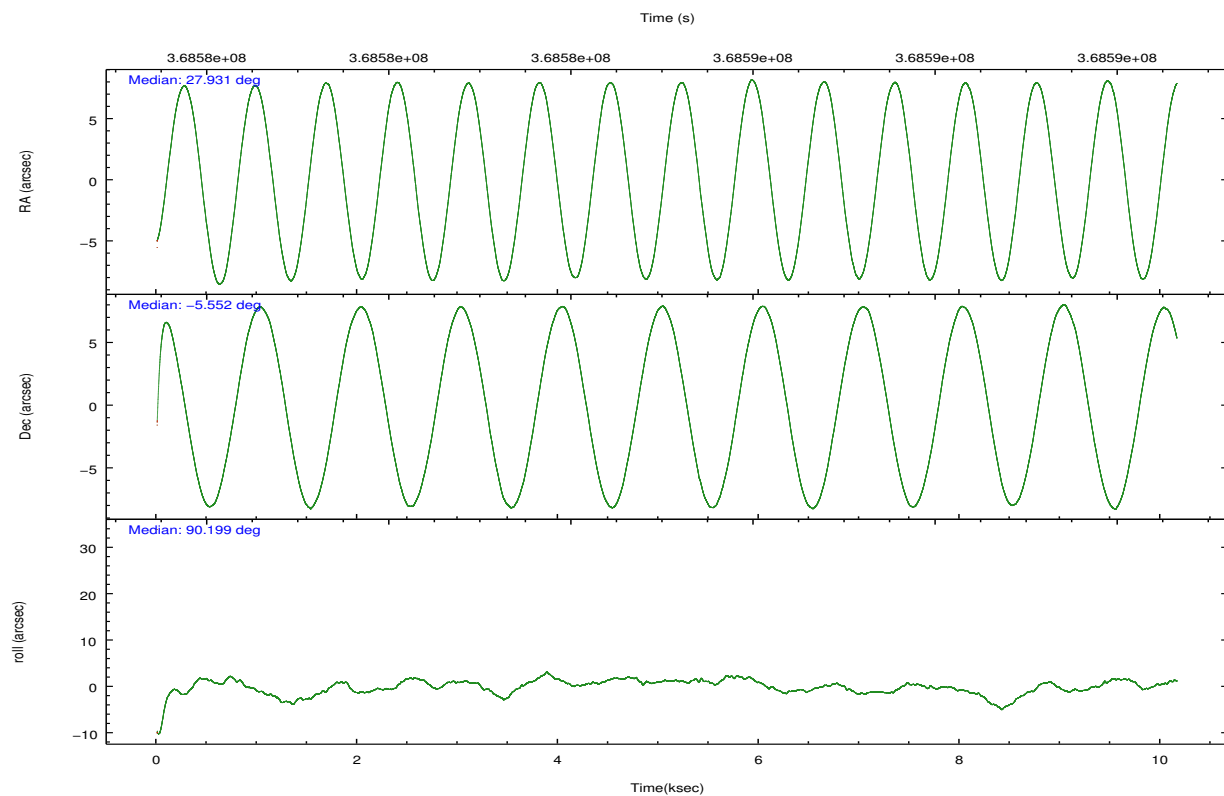


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	27.944887	27.93088932808473	CCD I2 on	Y	Y
[deg] Pointing Dec	-5.576000	-5.552266717159091	CCD I3 on	Y	Y
[deg] Pointing Roll	90.001125	90.20844479244056	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	368580139.184000	368578577.90231	CCD S5 on	N	N
Observation start date	2009-09-05T23:21:13	2009-09-05T22:56:17	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	368590139.184000	368590349.5154	On-chip summing requested	N	N
Observation end date	2009-09-06T02:07:53	2009-09-06T02:12:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



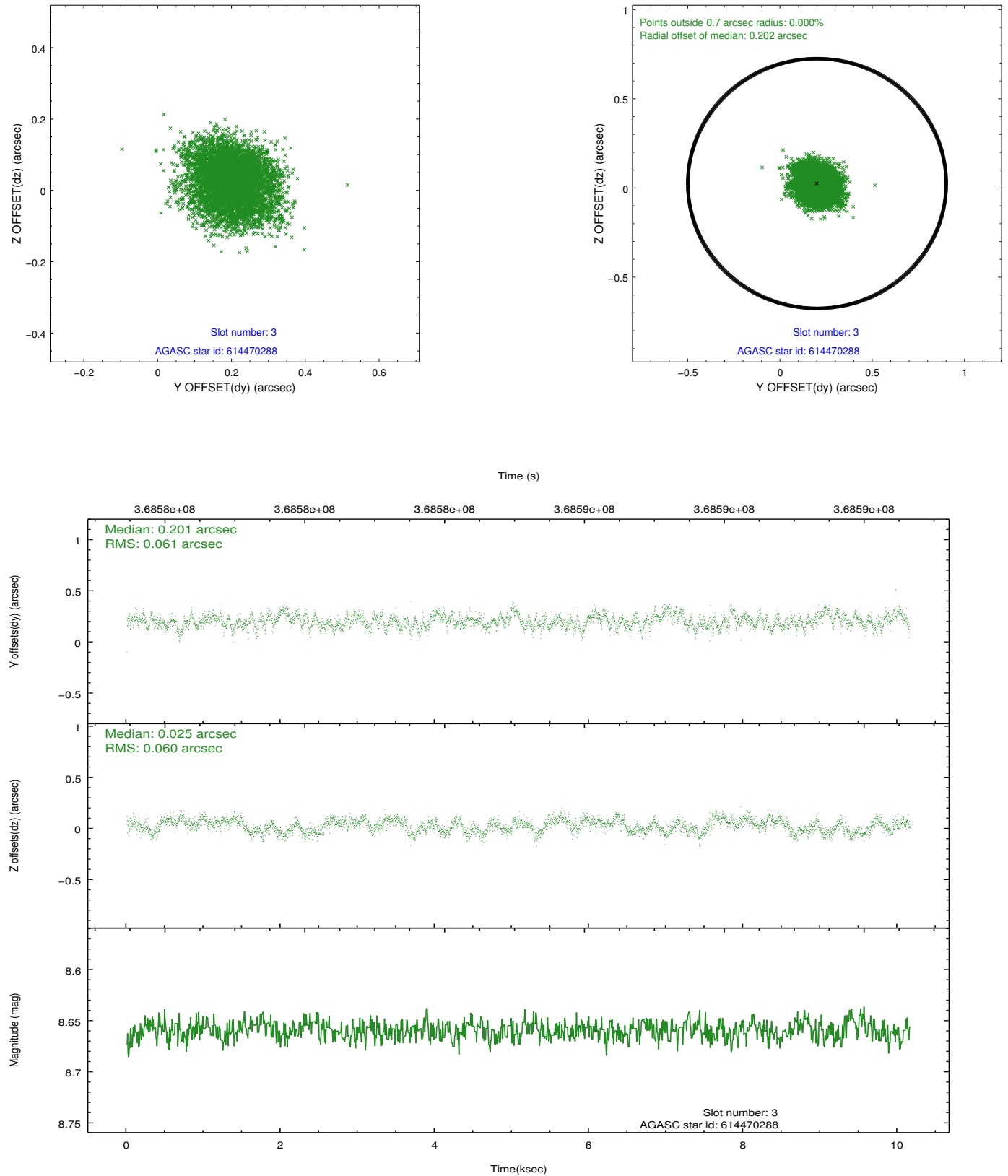


### Slot Statistics

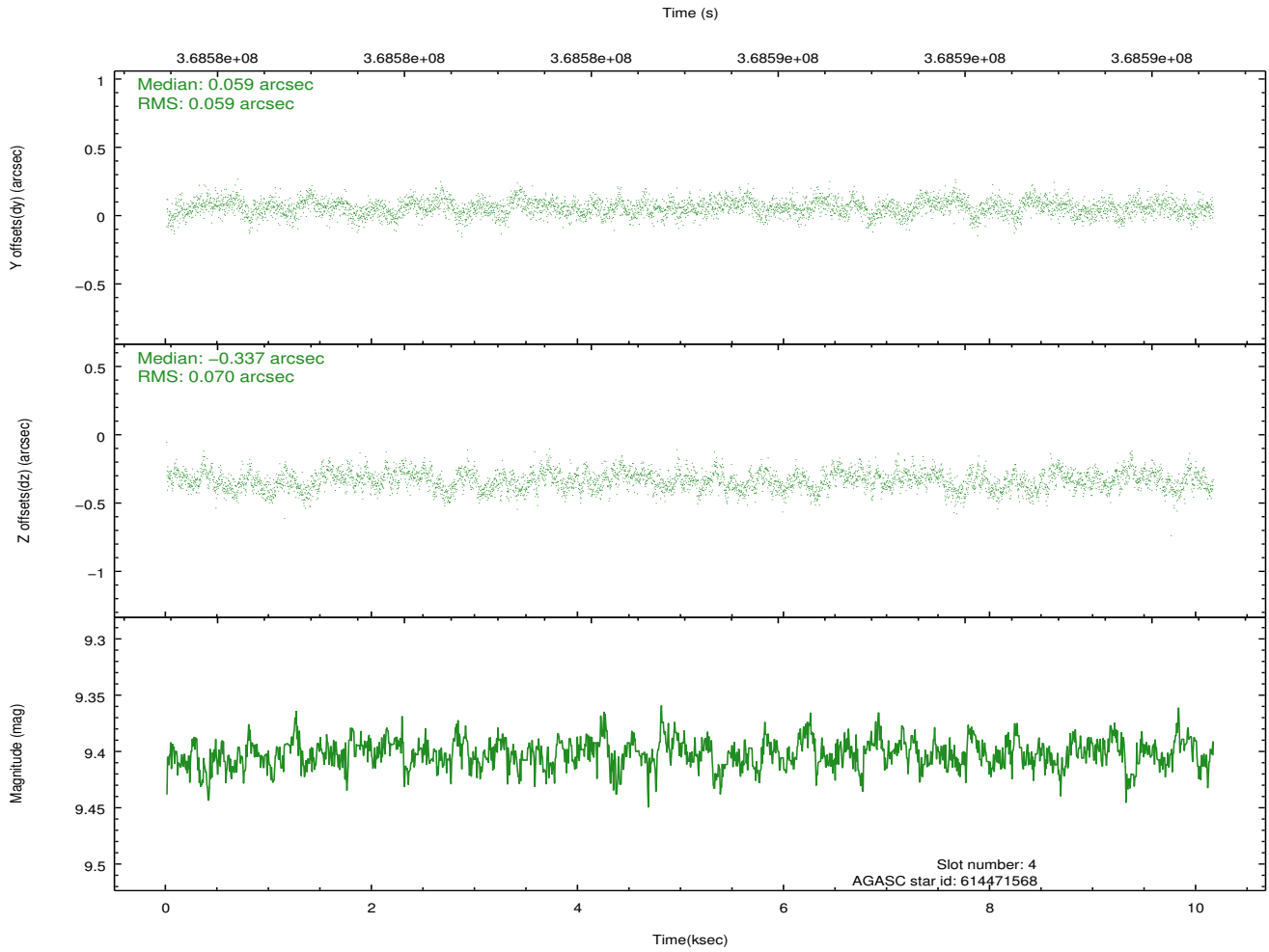
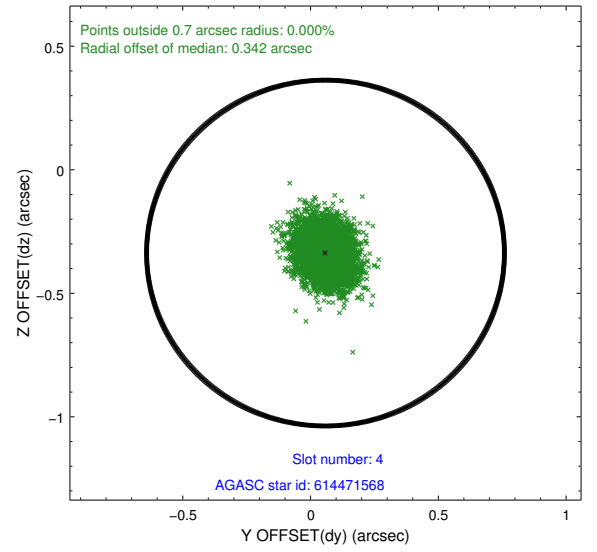
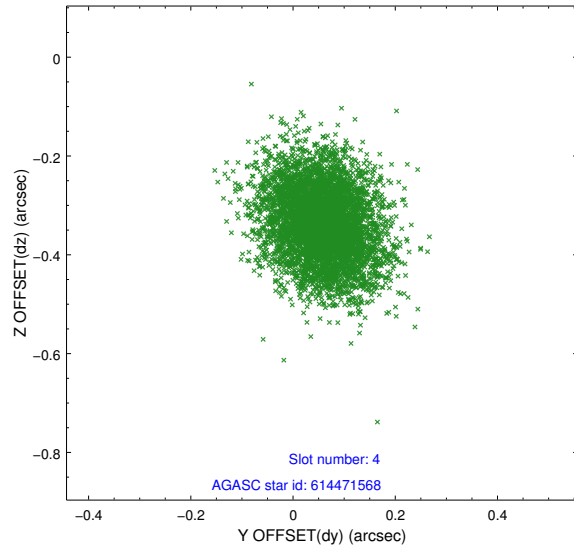
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	2476	0.037	0.010	0.006	0.011	0.000000	0.000000	927.81	-836.93
1	FID	ACIS-I-5	7.03	2478	-0.191	0.051	0.006	0.010	0.000000	0.000000	-1820.26	1060.31
2	FID	ACIS-I-6	7.04	2478	0.063	0.009	0.007	0.012	0.000000	0.000000	392.79	1705.38
3	GUIDE	614470288	8.66	4955	0.201	0.025	0.092	0.145	27.505510	-6.176298	-2161.29	1571.13
4	GUIDE	614471568	9.40	4948	0.059	-0.337	0.098	0.158	27.764884	-5.469703	382.23	645.22
5	GUIDE	614473088	9.52	4946	-0.084	0.174	0.102	0.164	28.463311	-5.266922	1112.22	-1858.13
6	GUIDE	614477384	9.61	4947	0.005	0.221	0.120	0.195	28.607162	-5.176126	1439.02	-2374.34
7	GUIDE	614479024	8.58	4952	-0.174	-0.079	0.085	0.136	27.495250	-5.189612	1390.44	1611.86

## 2.4 Star Slots

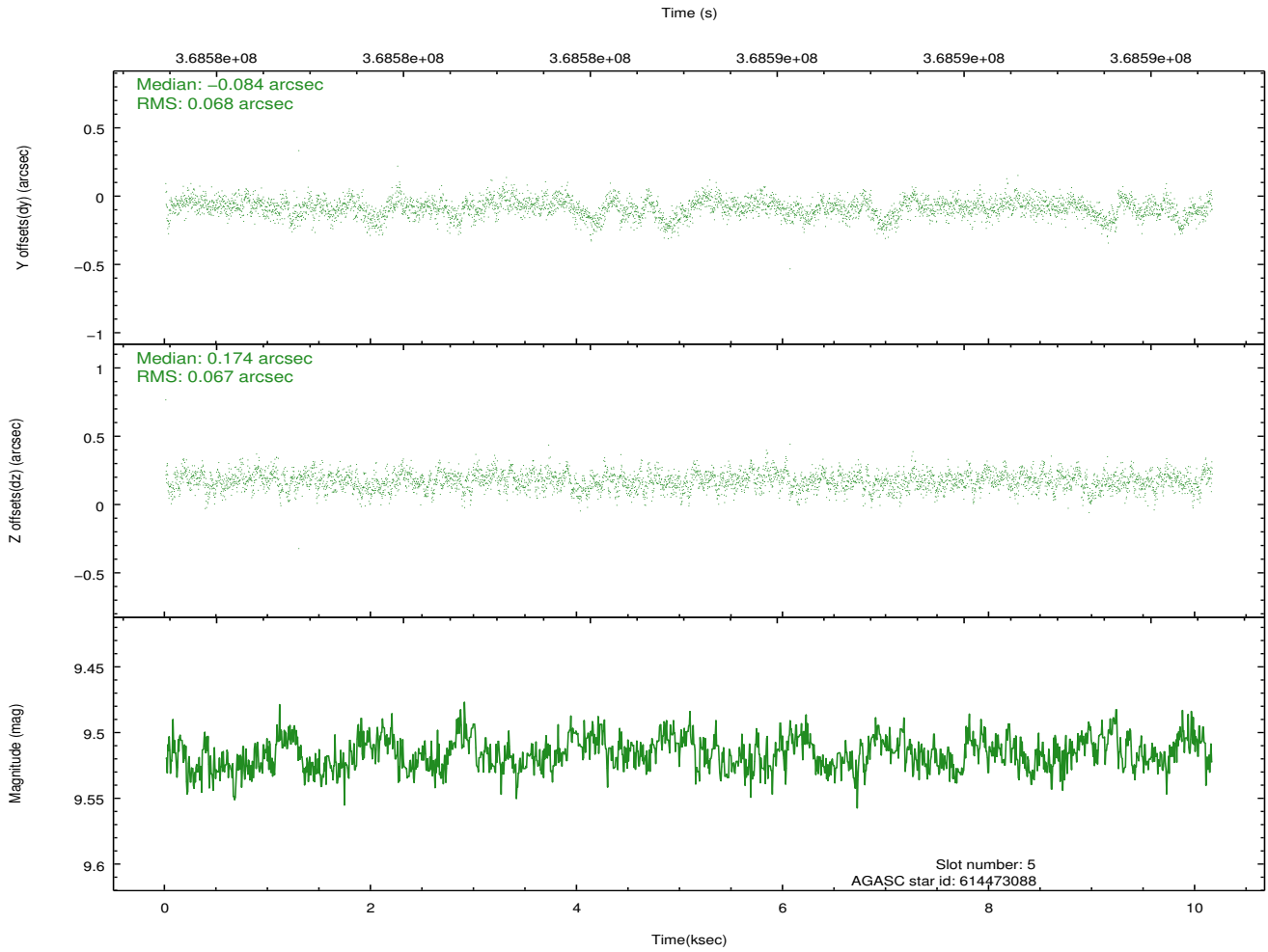
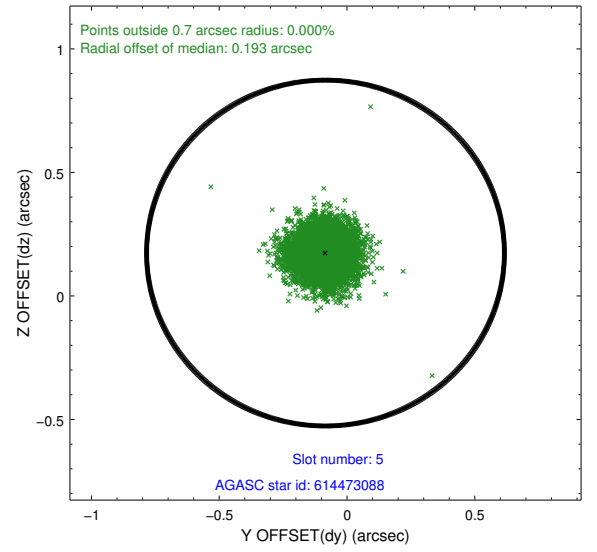
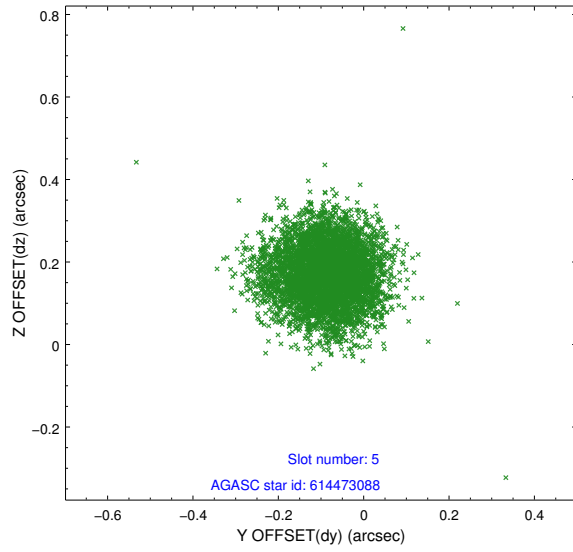
### 2.4.1 Slot 3



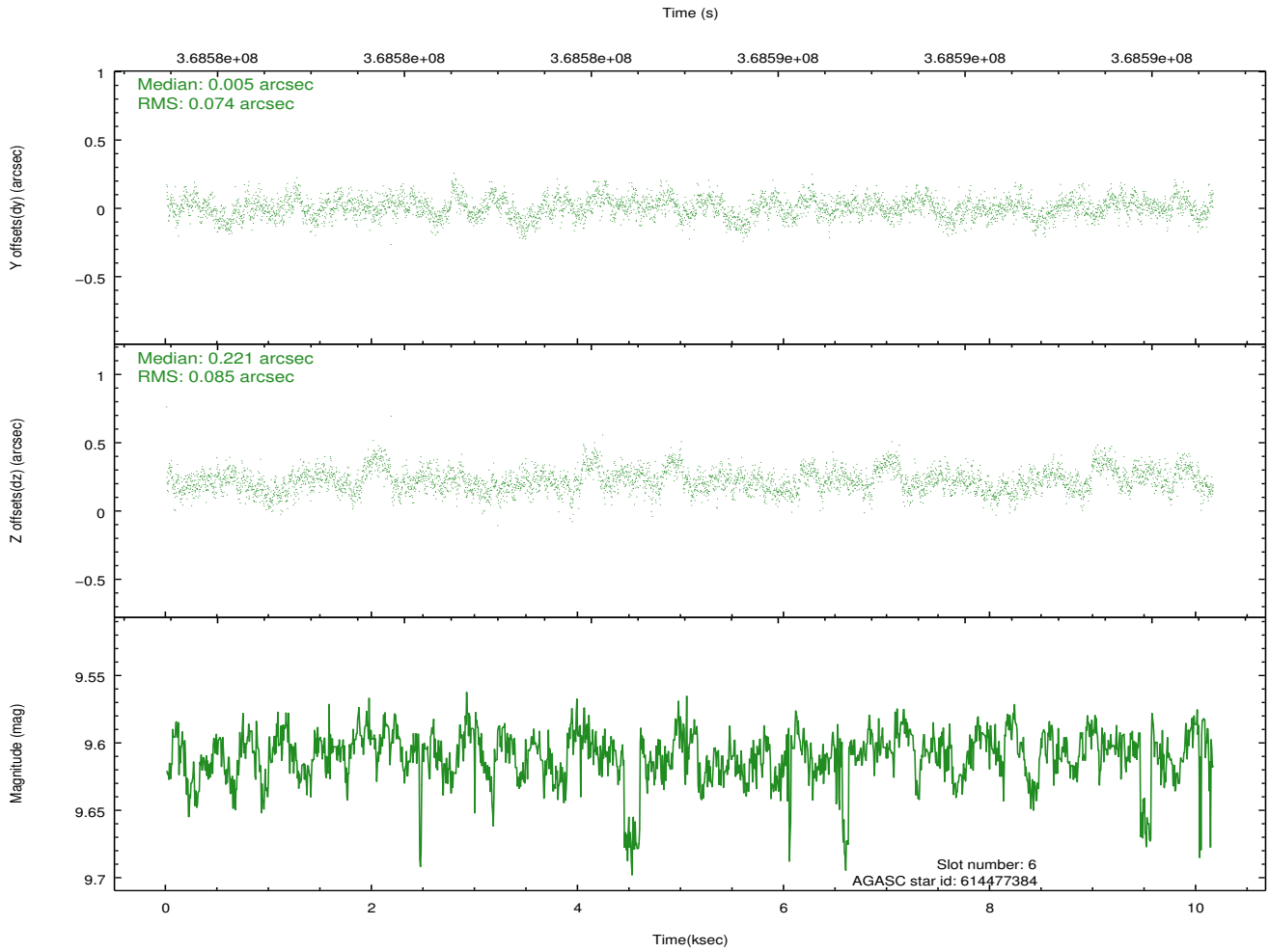
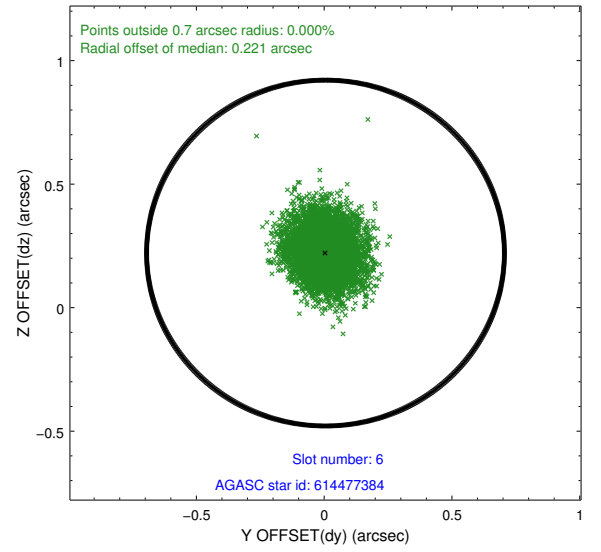
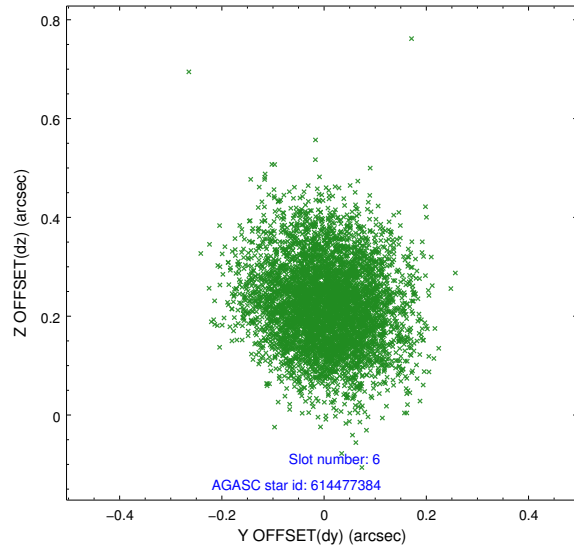
## 2.4.2 Slot 4



### 2.4.3 Slot 5

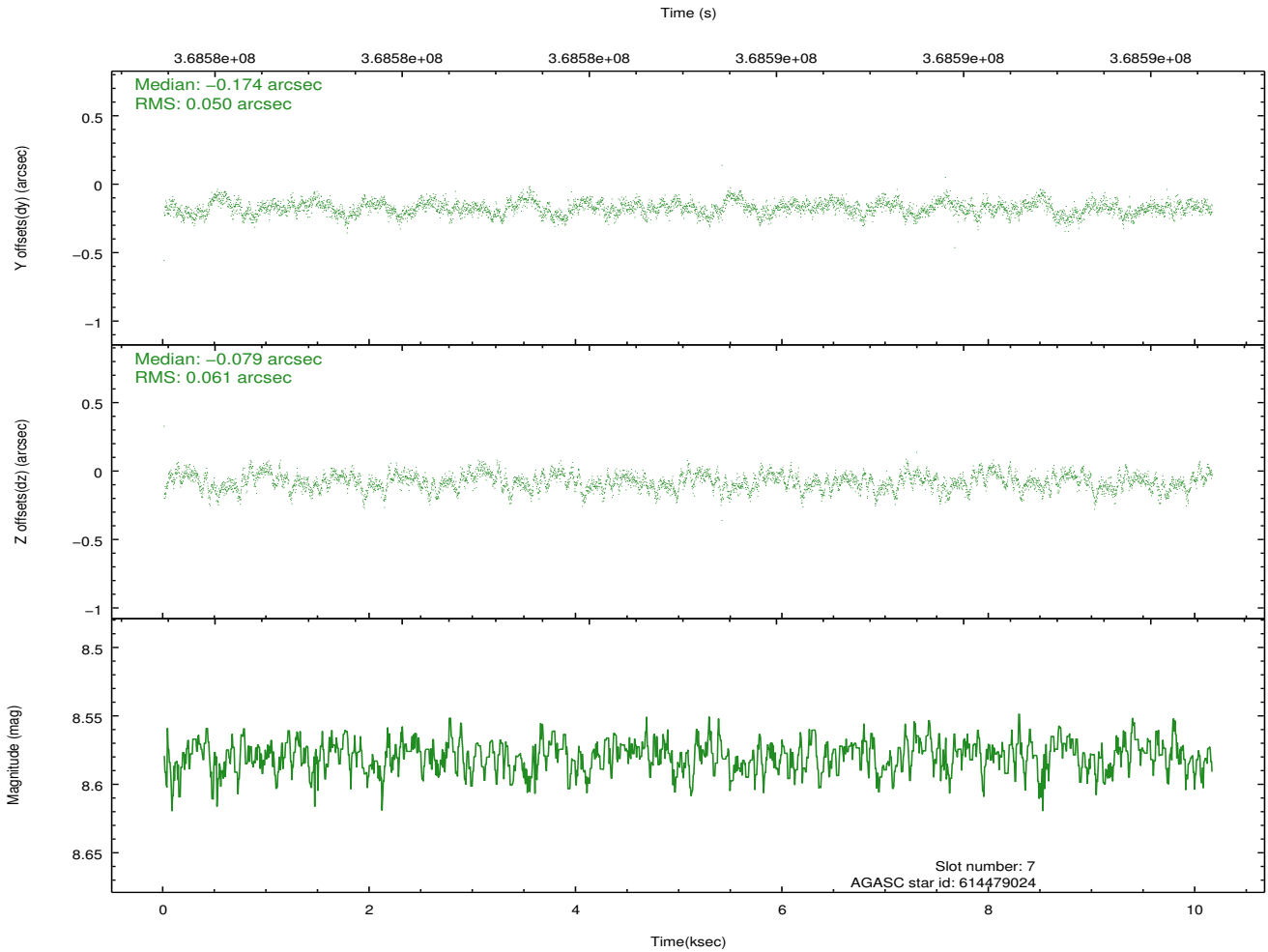
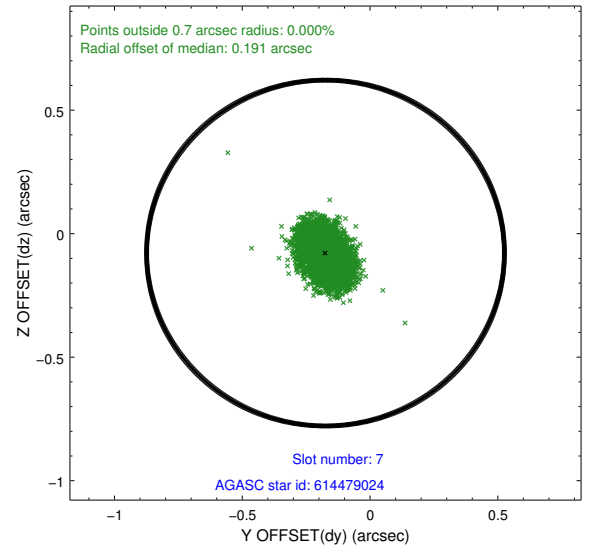
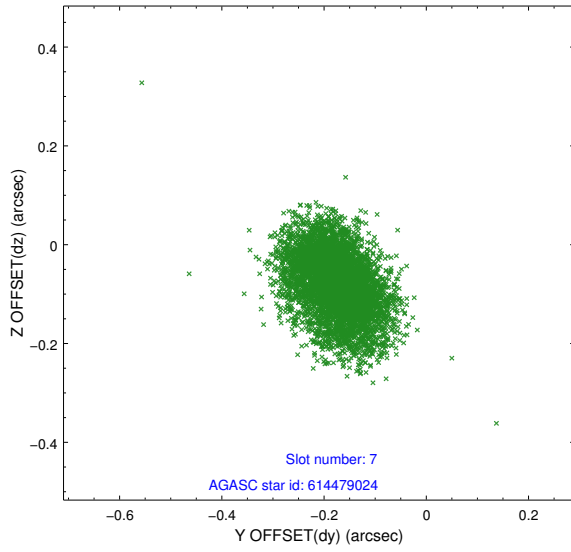


## 2.4.4 Slot 6



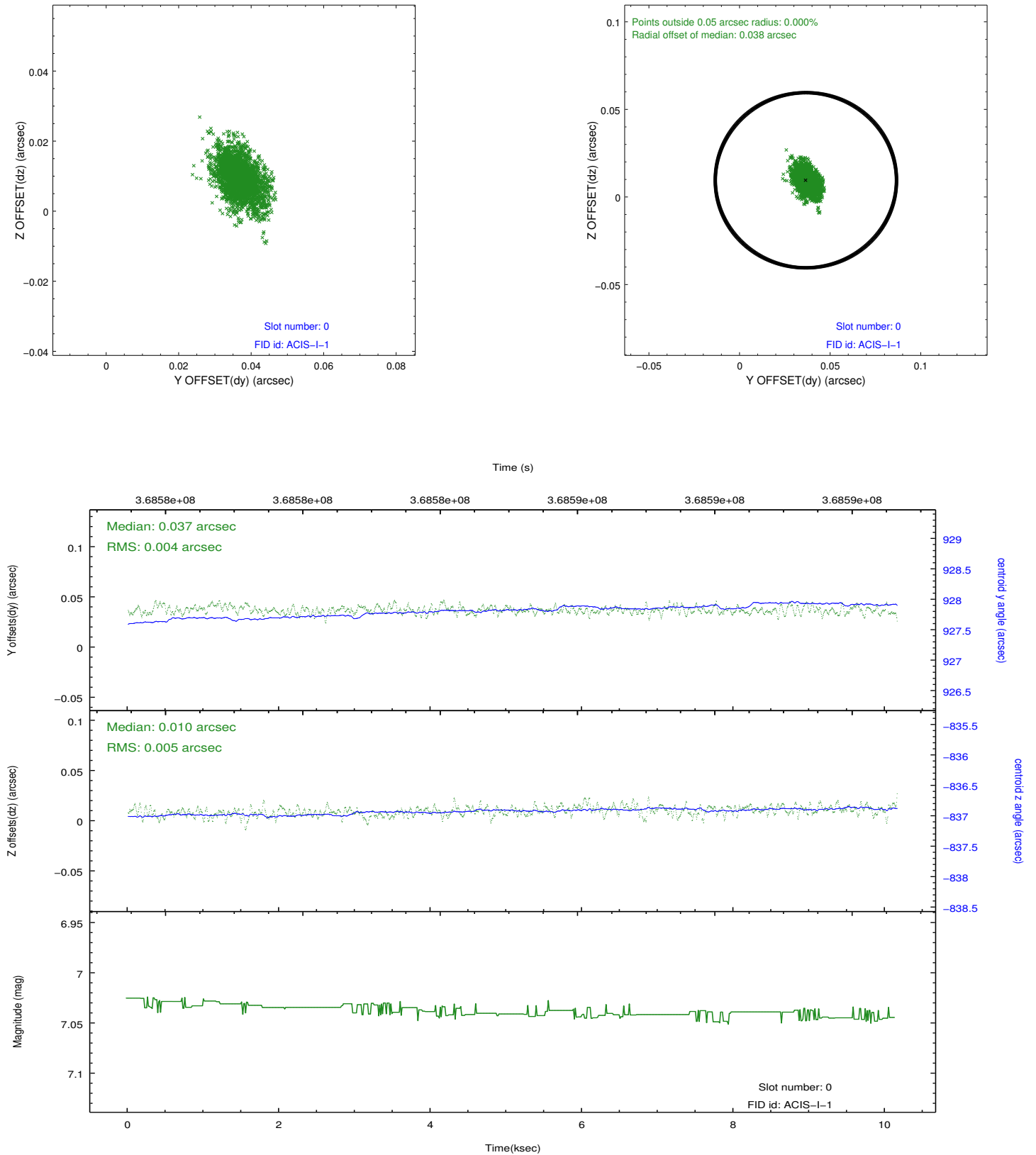


## 2.4.5 Slot 7

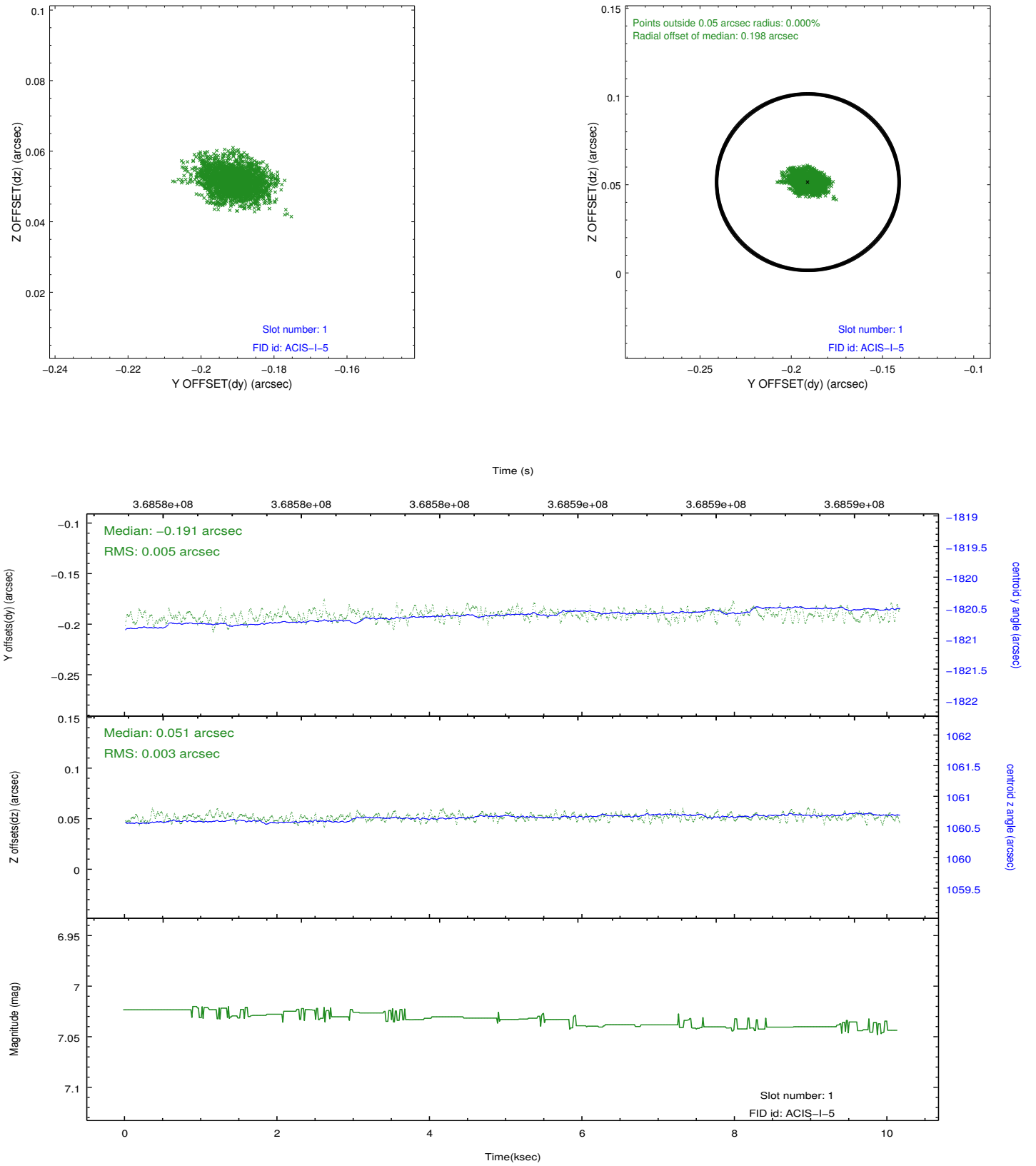


## 2.5 FID Slots

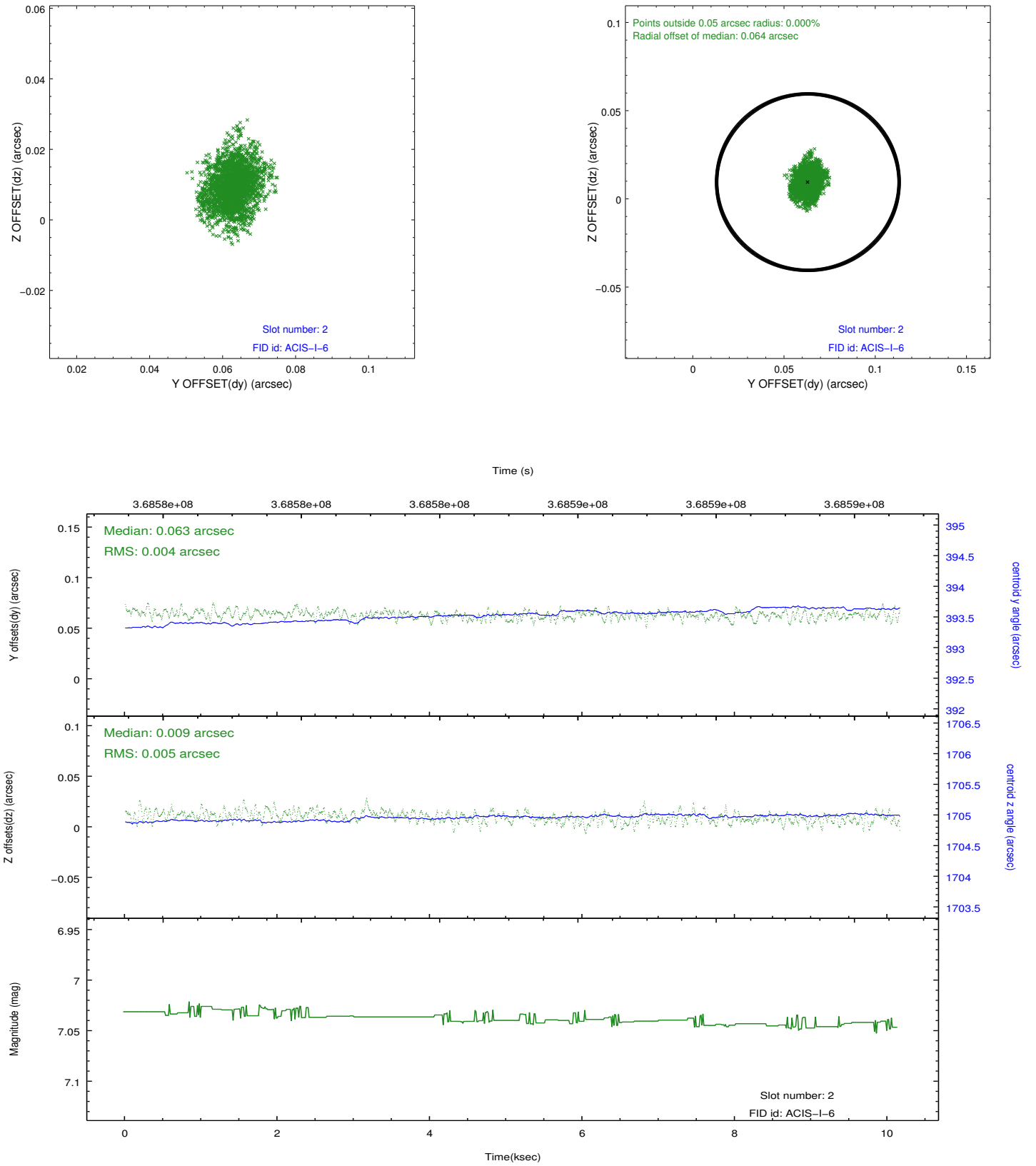
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.153599962234

### **A.2 Comments**